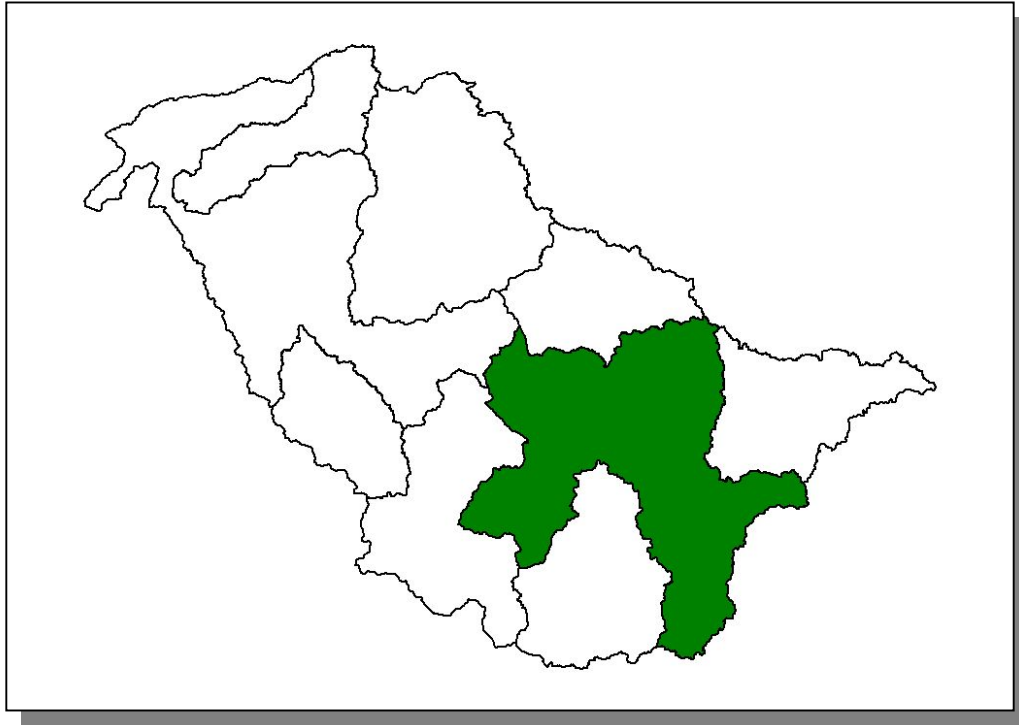
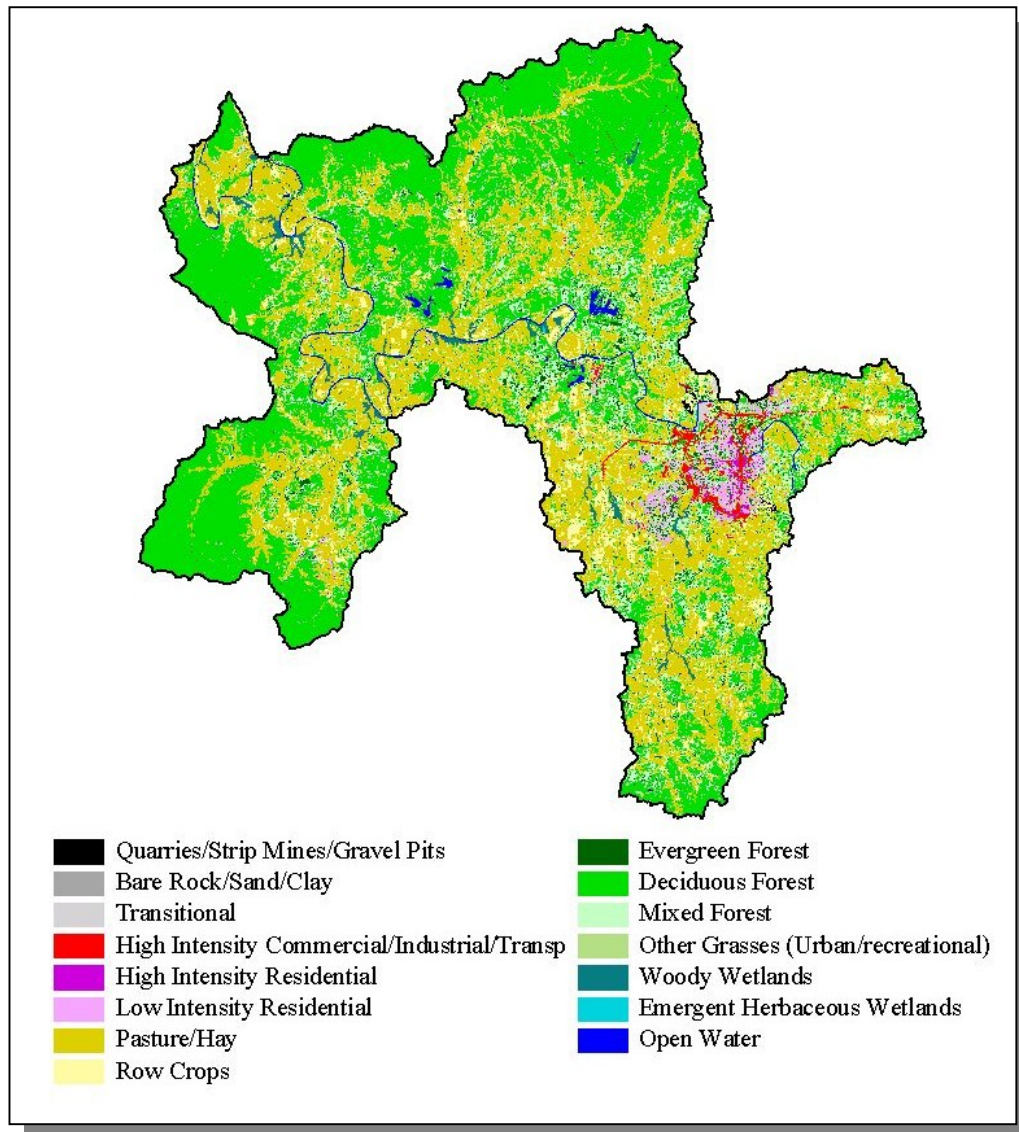


**4.2.A. 0604000301 (Duck River).**

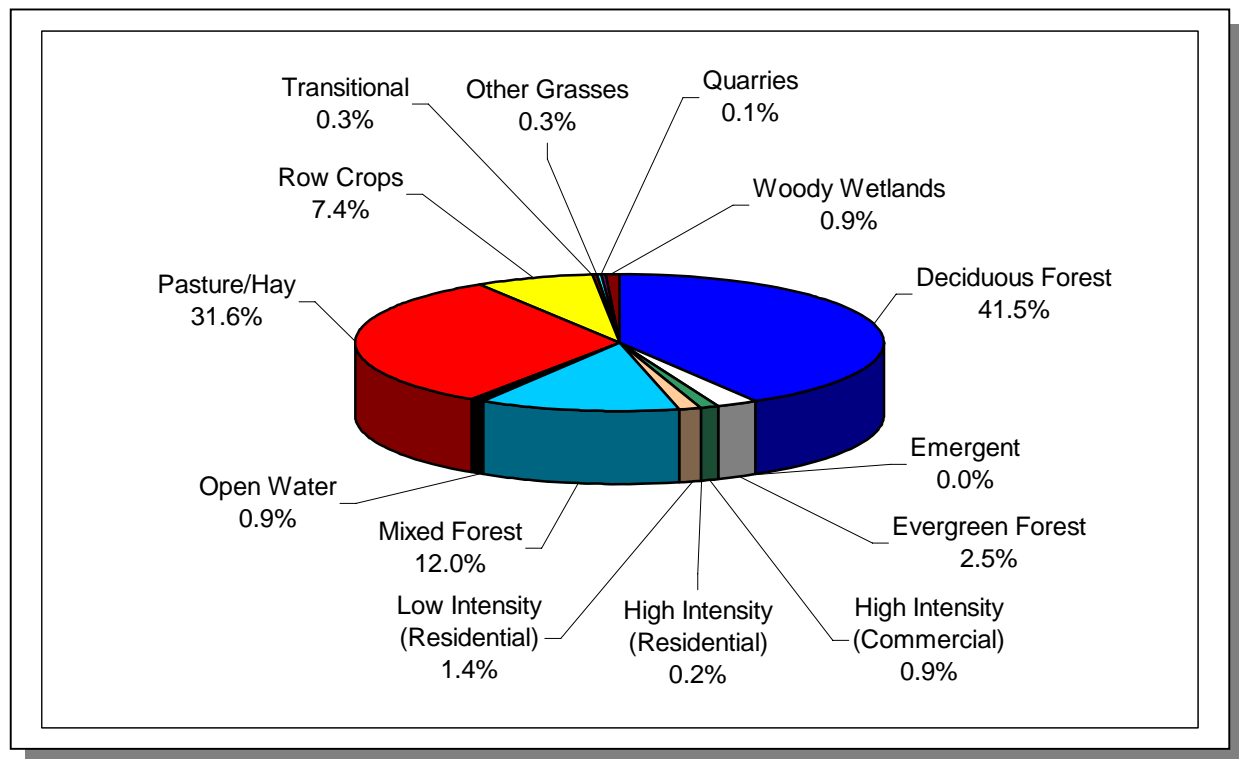


**Figure 4-2. Location of Subwatershed 0604000301.** All Lower Duck HUC-10 subwatershed boundaries are shown for reference.

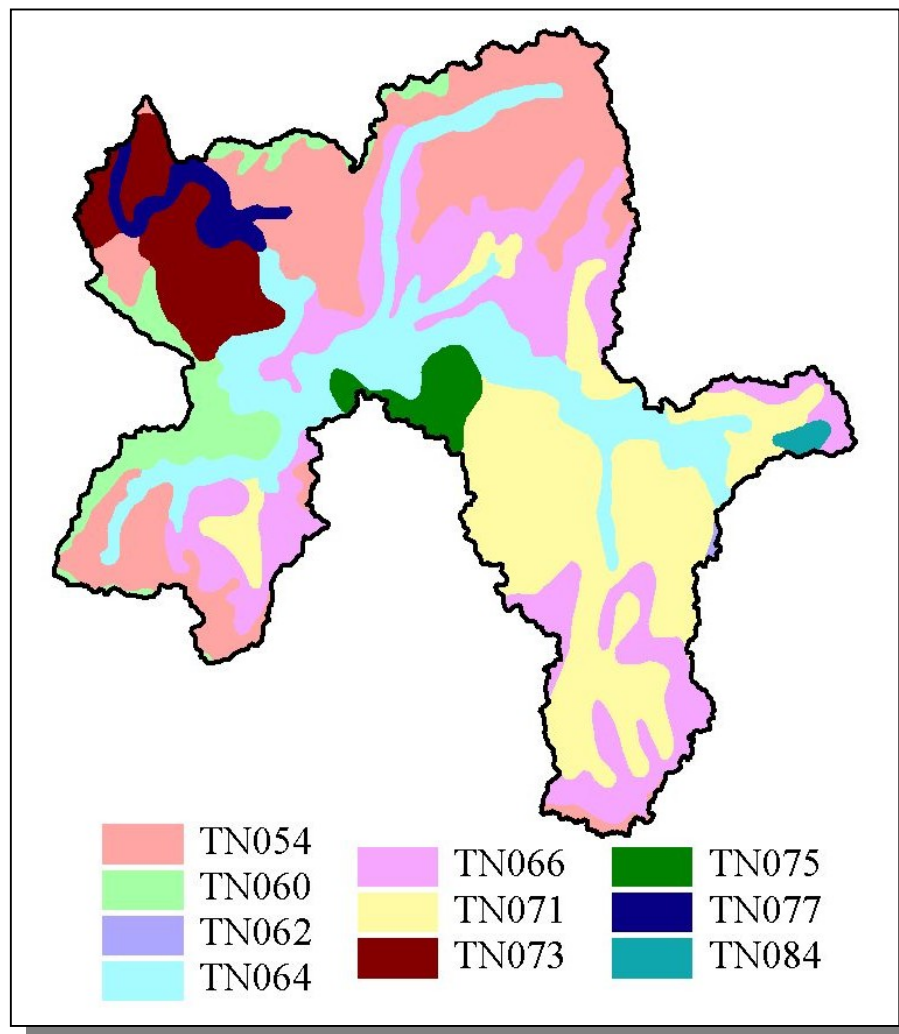
**4.2.A.i. General Description.**



**Figure 4-3. Illustration of Land Use Distribution in Subwatershed 0604000301.**



**Figure 4-4. Land Use Distribution in Subwatershed 0604000301.** More information is provided in Appendix IV.



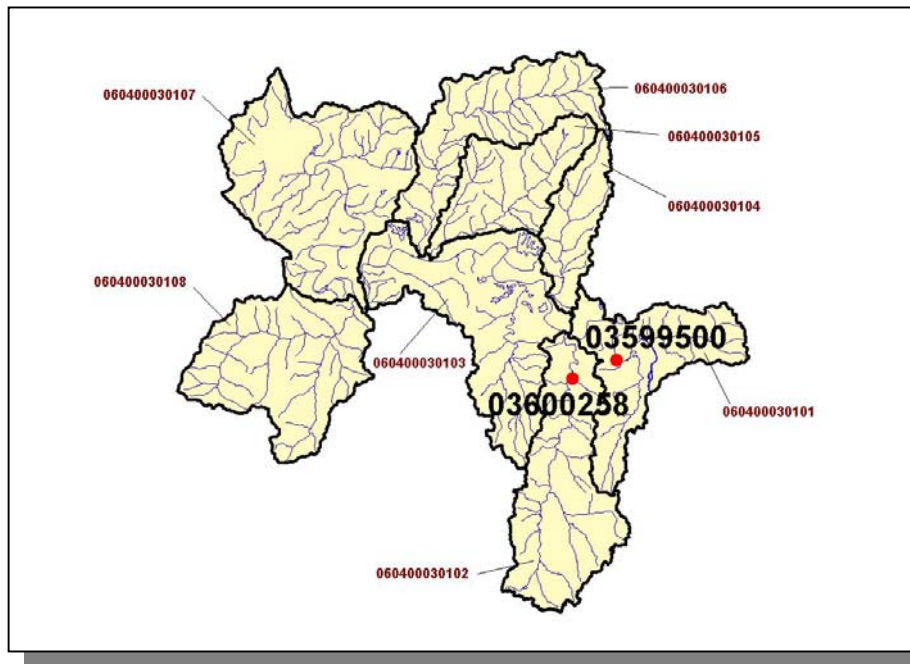
**Figure 4-5. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0604000301.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN054	0.00	C	3.04	4.84	Loam	0.32
TN060	5.00	B	1.30	5.32	Silty Loam	0.39
TN062	0.00	C	0.98	4.40	Clayey Loam	0.26
TN064	7.00	C	1.19	5.82	Silty Loam	0.37
TN066	0.00	B	2.62	4.75	Loam	0.28
TN071	0.00	C	2.37	5.70	Silty Loam	0.33
TN073	0.00	B	2.97	5.21	Loam	0.34
TN075	0.00	B	1.33	5.24	Loam	0.31
TN077	4.00	C	2.16	5.03	Loam	0.34
TN084	0.00	C	1.80	4.99	Silty Loam	0.28

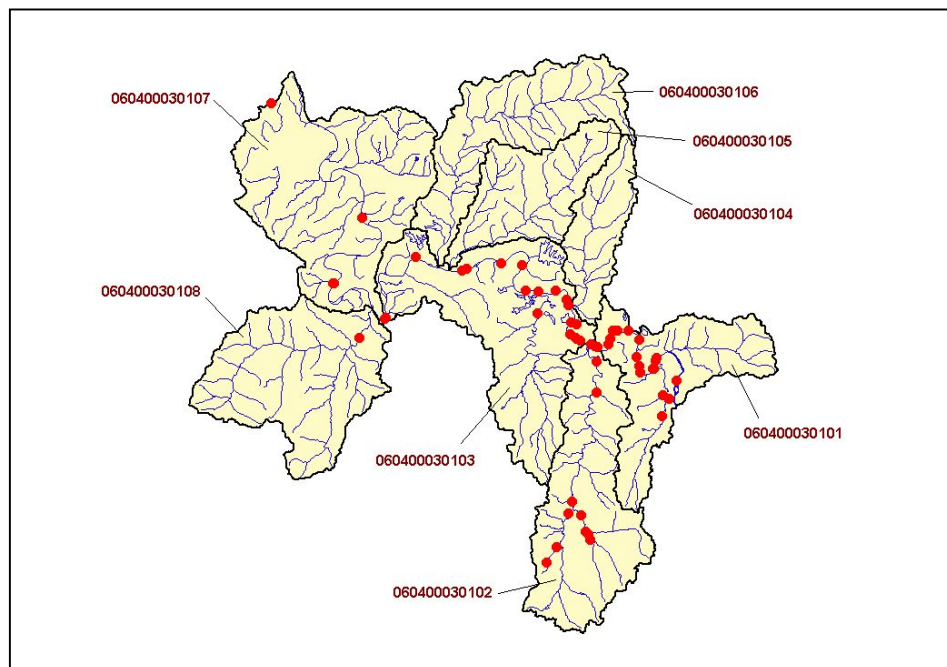
**Table 4-2. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0604000301.** More details are provided in Appendix IV.

County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-1997)
	1990	1997	2000		1990	1997	2000	
Giles	25,741	28,515	29,447	0.30	76	84	87	14.5
Hickman	16,754	19,926	22,295	8.12	1,360	1,617	1,810	33.1
Lewis	9,247	10,789	11,367	6.33	585	683	719	22.9
Maury	54,812	68,268	69,498	41.98	23,012	28,661	29,177	26.8
Williamson	81,021	111,453	126,638	0.58	467	642	730	56.3
<b>Totals</b>	<b>187,575</b>	<b>238,951</b>	<b>259,245</b>		<b>25,500</b>	<b>31,687</b>	<b>32,523</b>	<b>27.5</b>

*Table 4-3. Population Estimates in Subwatershed 0604000301*

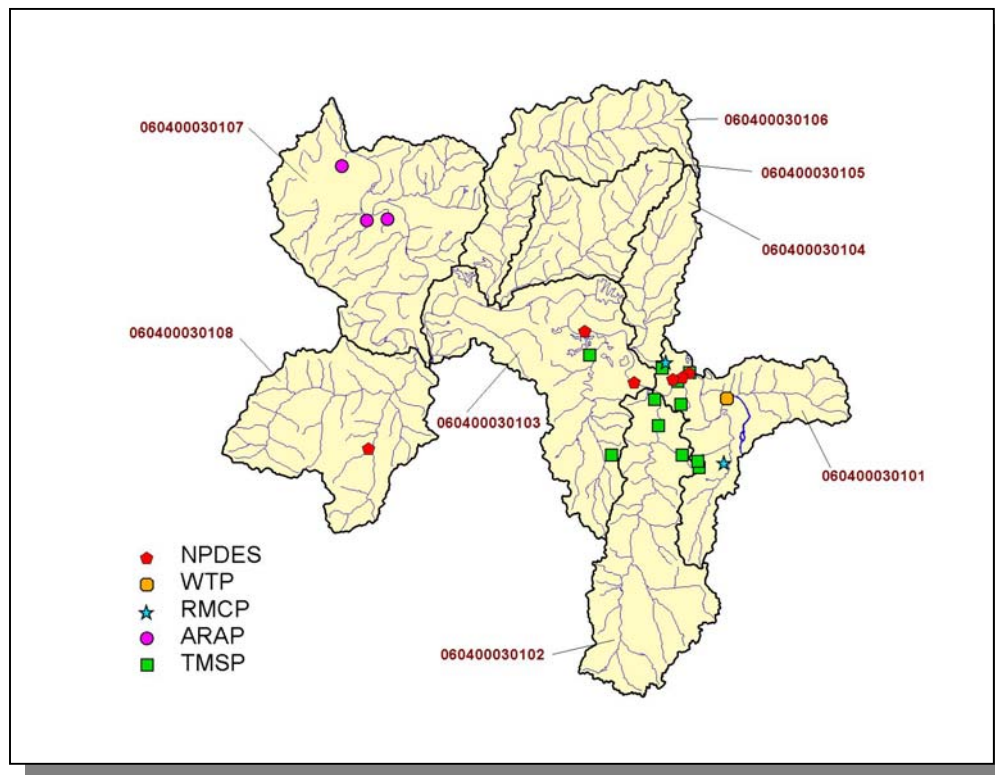


**Figure 4-6. Location of Historical Streamflow Data Collection Sites in Subwatershed 0604000301.** Subwatershed 060400030101, 060400030102, 060400030103, 060400030104, 060400030105, 060400030106, 060400030107 and 060400030108 boundaries are shown for reference. More information is provided in Appendix IV.



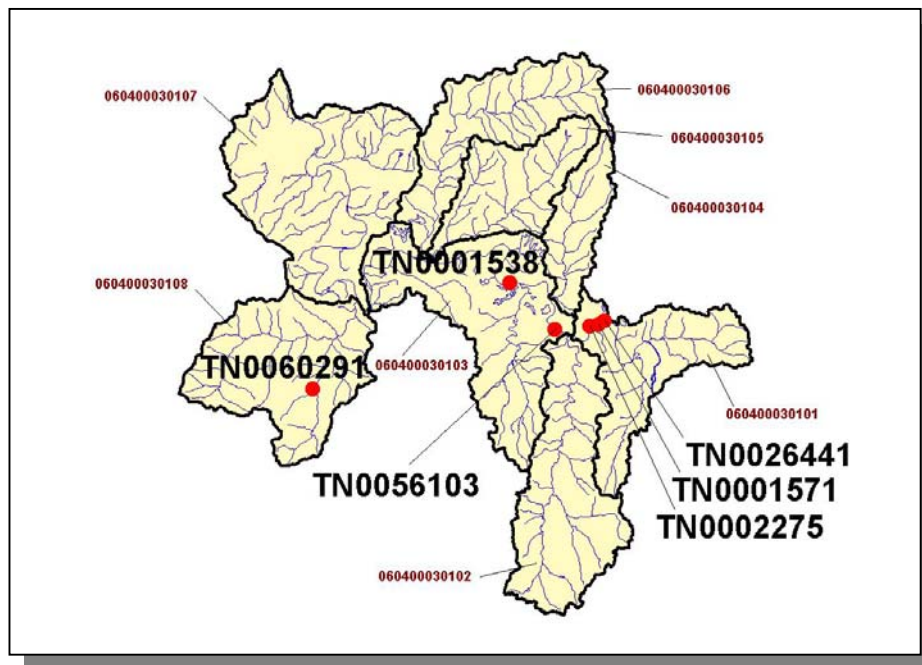
**Figure 4-7. Location of STORET Monitoring Sites in Subwatershed 0604000301.** Subwatershed 060400030101, 060400030102, 060400030103, 060400030104, 060400030105, 060400030106, 060400030107 and 060400030108 boundaries are shown for reference. More information, including site names and locations, is provided in Appendix IV.

4.2.A.ii Point Source Contributions.



**Figure 4-8. Location of Active Point Source Facilities in Subwatershed 0604000301.** Subwatershed 060400030101, 060400030102, 060400030103, 060400030104, 060400030105, 060400030106, 060400030107, and 060400030108 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.



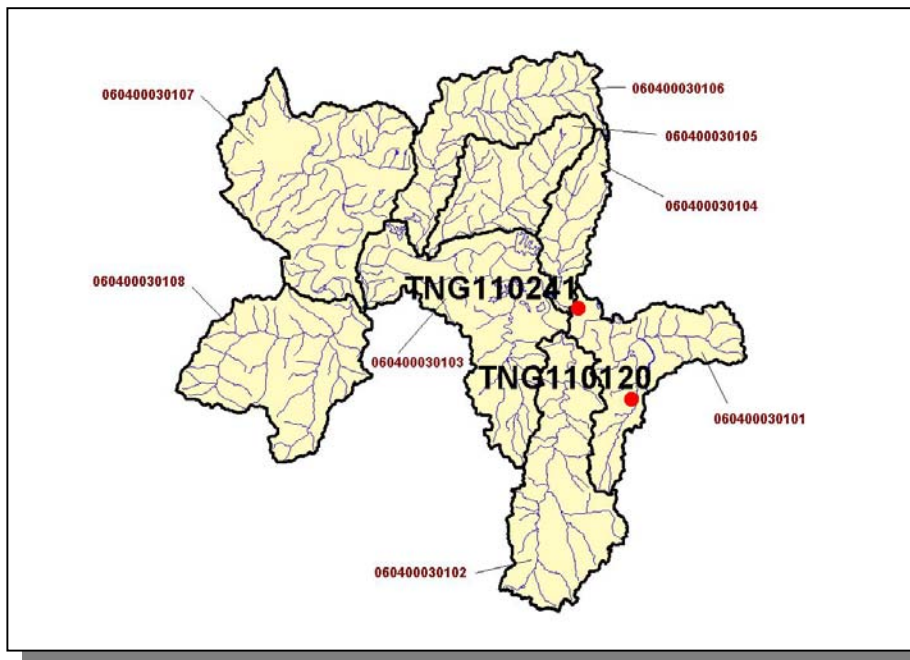


**Figure 4-9. Location of NPDES Facilities in Subwatershed 0604000301.** Subwatershed 060400030101, 060400030102, 060400030103, 060400030104, 060400030105, 060400030106, 060400030107, and 060400030108 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

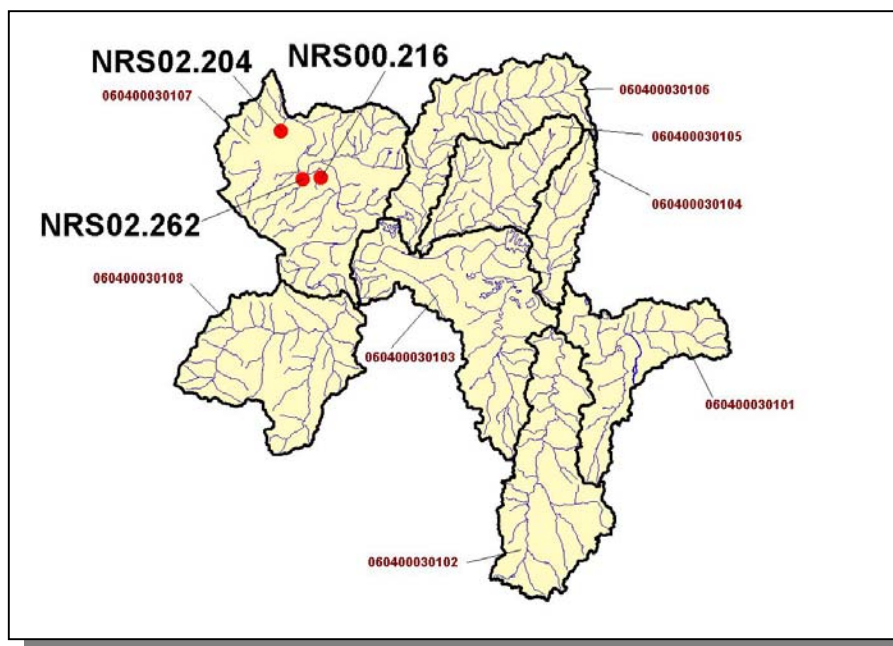


**Figure 4-10. Location of Water Treatment Plants in Subwatershed 0604000301.** Subwatershed 060400030101, 060400030102, 060400030103, 060400030104, 060400030105, 060400030106, 060400030107, and 060400030108 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

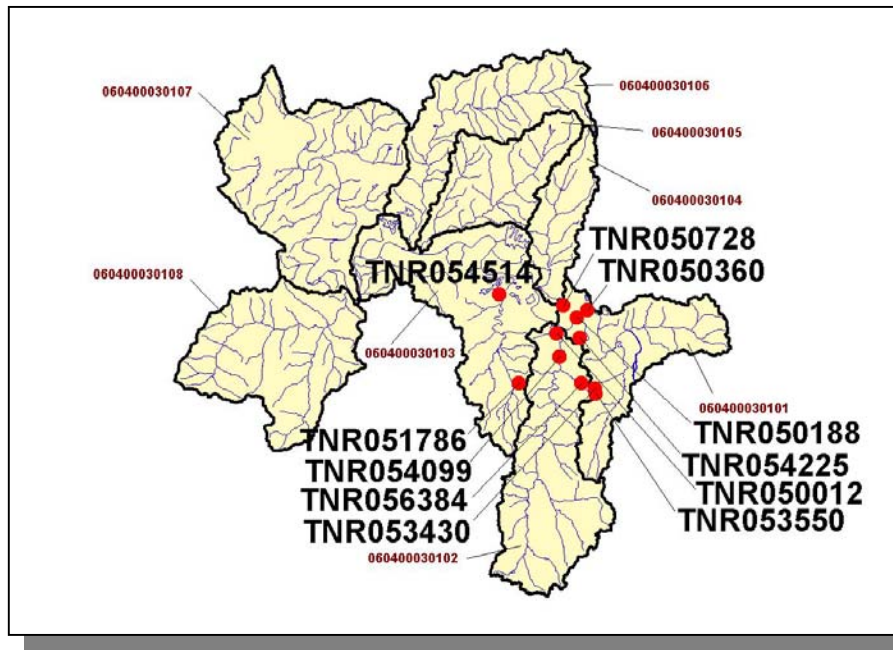




**Figure 4-11. Location of Ready Mix Concrete Plants in Subwatershed 0604000301.** Subwatershed 060400030101, 060400030102, 060400030103, 060400030104, 060400030105, 060400030106, 060400030107, and 060400030108 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-12. Location of ARAP Sites (Individual Permits) in Subwatershed 0604000301.** Subwatershed 060400030101, 060400030102, 060400030103, 060400030104, 060400030105, 060400030106, 060400030107, and 060400030108 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-13. Location of TMSF Facilities in Subwatershed 0604000301.** Subwatershed 060400030101, 060400030102, 060400030103, 060400030104, 060400030105, 060400030106, 060400030107, and 060400030108 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

**4.2.A.iii. Nonpoint Source Contributions.**

<b>LIVESTOCK (COUNTS)</b>						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
15,679	31,683	1,254	43	<5	1,417	165

**Table 4-4. Summary of Livestock Count Estimates in Subwatershed 0604000301.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	<b>INVENTORY</b>		<b>REMOVAL RATE</b>	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Giles	171.8	171.8	3.3	11.4
Hickman	297.2	297.2	5.8	23.0
Lewis	158.00	158.0	4.0	10.2
<b>Total</b>	<b>627.0</b>	<b>627.0</b>	<b>13.1</b>	<b>44.6</b>

**Table 4-5. Forest Acreage and Annual Removal Rates (1987-1994) in Subwatershed 0604000301.**

<b>CROPS</b>	<b>TONS/ACRE/YEAR</b>
Legume (Pastureland)	0.66
Grass (Pastureland)	0.81
Grass (Hayland)	0.28
Legumes (Hayland)	1.05
Legumes, Grass (Hayland)	0.28
Grass, Forbs, Legumes (Mixed Pasture)	0.36
Forest Land (Not Grazed)	0.00
Forest Land (Grazed)	0.00
Corn (Row Crops)	4.69
Soybeans (Row Crops)	7.57
Tobacco (Row Crops)	7.62
All Other Row Crops	11.39
Barley (Close-Grown Cropland)	1.08
Wheat (Close-Grown Cropland)	1.49
Summer Fallow (Other Cropland)	0.35
Other Cropland not Planted	4.20
Other Vegetable and Truck Crop	4.29
Conservation Reserve Program Lands	0.49
Non-Agricultural Land Use	0.00
Other Land in Farms	0.12
Farmsteads and Ranch Headquarters	0.39

**Table 4-6. Annual Estimated Total Soil Loss in Subwatershed 0604000301.**